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# COELENTERATA

COMPILED BY

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# 4. COELENTERATA

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H. DIGHTON THOMAS, M.A., PH.D.

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### I.—TITLES

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[**Zheleznov, V. M.**] see [Chekhovich, V. D.]

## II. — SUBJECT INDEX

### GENERAL LITERATURE AND HISTORY

#### Textbooks and General Works.—

FOREST ; MOORE, R. C. ; PRUD' HOMME VAN REINE ; WEBB & ELGOOD.

#### Monographs.—Coelenterates of

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#### Classification and Nomenclature.—

Revision of the hydroid genus *Perigonimus*, REES (1) ; Protomedusae considered as a Class, HARRINGTON & MOORE ; Dipleurozoa considered as a Class, HARRINGTON & MOORE (1) ; †Conulata considered as a Subclass of Scyphozoa, HARRINGTON & MOORE (3), and MOORE & HARRINGTON ; †Trachypsammia considered Alcyonaria, MONTANARO-GALLITELLI ; species of *Lobophytum* diagnosed on the basiliary spicules, TIXIER-DURIVAUT ; classification of Zoantharia, WELLS & HILL (2) ; Zoantharia Incertae Sedis, HILL (3) ; validation of *Lonsdaleia duplicata* and *L. floriformis*, OPINION 419 ; substitution of neotypes in place of previously published figures as standards in identifying *Lonsdaleia duplicata duplicata* and *L. floriformis floriformis*, STUBBLEFIELD.

General features of Cnidaria, HILL & WELLS.

List of fossil genera and species of coelenterates founded by C. Rusconi, [RUSCONI] (1).

Silurian type and figured corals from the Tortworth Inlier, Gloucestershire, CURTIS.

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Carotinoids in *Astroides calycularis*, ALCONTRES & CUZZOCREA ; Calcium/Strontium ratio in corals, BOWEN ; calcium, strontium and barium in hydrozoa and corals, BOWEN (1) ; a new chemical causing contraction extracted from *Rhizostoma pulmo*, BOVET & OTHERS ; histochemistry of mucopolysaccharide-like substances and alkaline phosphatase in Madreporaria, GOREAU ; chemical composition of the active nematocysts of *Metridium senile*, PHILLIPS ; nematocysts in Anthozoa, CUTRESS ; the mesenteric nerve net of *Metridium canum*, BATHAM ; morphology of coelenterates, HYMAN, and LELOUP ; Hydrozoa, HILL & WELLS (1) ; the Hydroida and †Spongioromorpha, HILL & WELLS (2) ; Milleporina and Stylasterina, BOSCHMA (5) ; Trachylina, HARRINGTON & MOORE (4) ; medusae of the Hydroida, HARRINGTON & MOORE (5) ; Siphonophorida, HARRINGTON & MOORE (6) ; †Stromatoporoidea, LECOMPT (1) ; †*Burgundia trinorchii*, SCHNORF-STEINER ; morphological degeneration in *Craspedacusta*, PENNAK ; twinning in *Pelmatohydra oligactis*, TURNER, C. L. ; dimorphism in *Physalia*, TOTTON & MACKIE, and WOODCOCK ; a new type of gonosome structure in hydroids, [NAUMOV] (1) ; Scyphozoa MOORE & HARRINGTON ; Scyphomedusae, HARRINGTON & MOORE (2) and MOORE & HARRINGTON ; a Cubomedusan (including gonads), SOUTHCOOT ; Octocorallia, BAYER (1) ; Tabulata, HILL & STUMM, and [SOKOLOV] ; Anthozoa, WELLS & HILL ; Rugosa, HILL (1), and SCHOUFFÉ ; Scleractinia, WELLS ; Ceriantipatharia, WELLS & HILL (1) ; Zoanthinaria, Corallimorpharia and Actiniaria, WELLS & HILL (3) ; Heterocorallia, HILL (2) ; flagellated epithelia in madreporarian corals, GOREAU & PHILPOTT ; †*Cyathoclisia coniseptum*, [VOINOVSKII-KRIGER] ; calcitic skeleton of †*Lophophyllidium profundum*, STEHLI ; †*Peneckiella*, FLÜGEL, H. ; variation in †*Helicolites parvistella* var. *caespitosa*, COLTER ; variation in †*Aulophyllum fungites*, PARKS ; variation

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**Nematocysts.** — Reactions and nematocysts of coelenterates, LELOUP ; nematocysts of Anthozoa, CUTRESS ; isolation of active nematocysts of *Metridium senile* and their chemical composition, PHILLIPS.

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## DISTRIBUTION

### 1.—GEOGRAPHICAL

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†*Labechia smithi* **nom. n.** (for *carbonaria* Smith non Struve) p. 111, pl. 90 Carboniferous England, [SOKOLOV].

*Laodicea undulata* p. 211 fig., LELOUP.

*Laomedea fragilis* p. 152 fig., *geniculata* p. 152 fig., *flexuosa* p. 154 fig., *exigua* p. 155 fig., *gracilis* p. 155 fig., *bicuspidata* p. 157 fig., *loveni* p. 157 fig., *gelatinosa* p. 159 fig., *hyalina* p. 161 fig., *gigantea* p. 161 fig., *longissima* p. 162 fig., *dichotoma* p. 164 fig., LELOUP.—*L. calceolifera* p. 187, PICARD.

*Lensia cossack* p. 3 fig., *fowleri* p. 3 fig., *conoidea* p. 3 fig., *multicristata* p. 3 fig., *achilles* p. 3 fig., *lelouweteau* p. 3 fig., *meteori* p. 3 fig., *subtilis* p. 3 fig., *ajax* p. 3 fig., TOTTON & FRASER (1).

*Leuckartiara octona* p. 210 fig., LELOUP.—*L. abyssi* p. 114, REES.—*L. octona* pp. 340, 341, 342, 343, 344, 345, 347, ? *L. octona* pp. 340, 347, *L. ? abyssi* pp. 338, 347, REES (1).—*L. octona* p. 4 fig., *nobilis* p. 4 fig., *breviconis* p. 4 fig., RUSSELL (5).

*Liriopse tetrphylla* p. 4, KRAMP.

*Lizzella hyalina* p. 206 fig., LELOUP.

*Lizzia blondina* p. 3 fig., RUSSELL (4).

*Lovenella* (?) *paniculata* p. 185, PICARD.

*Margelopsis haeckeli* pp. 106, 197 fig., LELOUP.

*Marrus orthocanna* p. 3 fig., TOTTON & FRASER (6).

†Medusae revised p. F77 fig., HARRINGTON & MOORE (5).

*Melophysa melo* p. 3 fig., TOTTON & FRASER (7).

*Merga reesi* **sp. n.** p. 493 fig. English Channel, RUSSELL (3).

*Merona cornucopiae* p. 499 fig., REES (3).

*Microhydra ryderi* p. 88 fig., LELOUP.

*Millepora dichotoma* p. 60, *platyphylla* p. 60 fig., ROSSI.—*M. platyphylla* p. 12 fig., SEARLE.—*M. exaesa* and *platyphylla* p. 45 may be synonymous p. 46, STEPHENSON & WELLS.

†*Milleporidium darwini* p. 62 fig., *davisi* p. 62 fig., **spp. n.** Cretaceous Mid-Pacific, HAMILTON.

†*Milleporina* revised p. F91 fig., BOSCHMA (5).

*Moerisia alberti* p. 205, BOUILLON & SEMAL-VAN GANSEN.

*Monocoryne* p. 115, *gigantea* p. 117 fig., REES.

Monocoryninae **subfam. n.** (of Myriothelidae) p. 115, REES Nytt Mag. Zool. 4 1956.

*Monotheca obliqua, posidoniae* p. 188, PICARD.

*Muggiaea kochi* p. 3 fig., *atlantica* p. 3 fig., TOTTON & FRASER.

*Myriothela* discussed p. 115, diagnosed p. 116, REES.

Myriothelidae discussed p. 114, REES.

Myriothelinae **subfam. n.** (of Myriothelidae) p. 115, REES Nytt Mag. Zool. 4 1956.

*Nanomia cara* p. 3 fig., *bijuga* p. 3 fig., TOTTON & FRASER (6).

*Nectopyramis spinosa* p. 3 fig., *thetis* p. 3 fig., *diomedea* p. 3 fig., TOTTON & FRASER (3).

*Nemertesia antennina* p. 186 fig., *ramosa* p. 186 fig., LELOUP.—*N. antennina, ramosa, tetrasticha* p. 189, PICARD.

*Nemopsis bachei* p. 3 fig., RUSSELL (4).

*Neoturris pileata* p. 4 fig., RUSSELL (5).

*Obelia* spp. p. 216 fig., LELOUP.—*O. geniculata, bicuspidata* p. 186, PICARD.

*Olindias phosphorica tenuis* p. 13 fig., BREDER.—*O. singularis* p. 237, KRAMP (1).

*Opercularella lacerata* p. 132 fig., LELOUP.

*Pandea* discussed p. 8, *conica* the hydromedusa of *Campaniclavula cleodorae* p. 1 fig., PICARD (1).—*P. conica* p. 4 fig., *rubra* p. 4 fig., RUSSELL (5).

†*Parallelopora beuthi* p. 52, *bücheliensis*, cf. *bücheliensis* p. 53, *bücheliensis* subsp. *forojuliensis*, *crassa* p. 54, FLÜGEL, E.

*Paratiara digitalis* p. 4 fig., RUSSELL (5).

*Pelmatohydra oligactis* p. 91 fig., LELOUP.

*Perarella schneideri* pp. 344, 346, REES (1).

*Perigonimus megas* **sp. n.** p. 257 fig. Kiel Canal, KINNE.—*P. repens* p. 116 fig., *serpens* p. 118 fig., LELOUP.—*P. sarsii* a junior synonym of *Rhizorhagium roseum* p. 114, REES.—*P.* revised p. 337, *abyssi*, *antarcticus*, *apicatus*, *bitentaculatus* pp. 338, 347, *cidaritis* pp. 339, 346, *cirratus*, *coccineus*, *confertus* pp. 339, 347, *decorans* pp. 340, 348, *formosus*, *gelatinosus*, *georginae*, *jonesii* pp. 340, 347, *linearis*, *maclovianus* pp. 341, 346, *minutus*, *miniatus*, *multicornis* pp. 341, 347, *muscoideus*, *muscus* pp. 342, 346, *napolitanus* pp. 342, 348, *nudus*, *palliatius* pp. 342, 347, *pugetensis*, *pusillus*, *quadridentaculata*, *roseus*, *sarsii* pp. 343, 347, *schneideri* pp. 344, 346, *serpens*, *sessilis* pp. 344, 347, *steinachi*, *sulfureus* pp. 344, 348, *vagans*, *vestitus* pp. 345, 347, *yoldiae-arcticae* pp. 346, 347, *P. ? inflatus* pp. 340, 347, *nanellus*, *nutans* pp. 342, 347, ? *P. robustus* pp. 343, 347, REES (1).

*Phialella quadrata* p. 219 fig., LELOUP.

*Phialidium hemisphaericum* p. 216 fig., LELOUP.

*Physophora hydrostatica* p. 2 fig., TOTTON & FRASER (7).

*Plotocnide borealis* p. 94 fig., BEYER.

*Plumularia setacea* p. 189 fig., LELOUP.—*P. setacea* p. 188, PICARD.

? *Pochella polynema* pp. 338, 347, REES (1).

*Podocoryne carnea* p. 115 fig., *areolata* p. 207 fig., LELOUP.

*Polyplumaria liechtensterni* p. 188, *secundaria* p. 189, PICARD.

*Protohydra leuckarti* p. 87 fig., LELOUP.—*P. leuckarti* p. 95 fig., MARCOCI.

*Rathkea octopunctata* p. 205 fig., LELOUP.—*R. octopunctata* p. 3 fig., RUSSELL (4).

*Rhizorhagium roseum*, p. 113, REES.—*R. roseum* pp. 343, 347, ? *R. roseum* pp. 339, 340, 341, 347, *R. antarcticum* pp. 338, 347, *formosum* pp. 340, 347, REES (1).

*Rhopalonema velatum* p. 2, KRAMP.

*Rosacea cymbiformis* p. 3 fig., *plicata* p. 3 fig., TOTTON & FRASER (3).

*Sarsia gemmifera* p. 197 fig., *tubulosa* p. 199 fig., LELOUP.

*Scandia pocillum* p. 187, PICARD.

*Sertularella gayi* p. 166 fig., *polyzonias* p. 168 fig., form. *mediterranea* p. 168 fig., *rugosa* p. 170 fig., LELOUP.—*S. fusiformis* form. *lagenoides*, form. *fusiformis*, form. *ornata*, form. *crassicaulis* p. 192, PICARD.—*S. gayi* p. 260 fig., *crassicaulis* p. 260 fig., *polyzonias* p. 260 fig., *ellisii* p. 260 fig., forma *lagenoides* p. 264 fig., forma *mediterranea* p. 264 fig., forma *spelea* **form. n.** p. 264 fig. Mediterranean Sea, forma *ellisii* (= *glabra*) p. 264, forma *ornata* p. 265 fig., PICARD (2).

*Sertularia argentea* p. 311 fig., *cupressina* p. 312 fig., HANCOCK, DRINNAN & HARRIS.—*S. cupressina* p. 176, form. *argentea* p. 176 fig., LELOUP.—*S. perpusilla* p. 192, PICARD.

†Siphonophorida revised p. F145 fig., HARRINGTON & MOORE (6).

*Solmaris rhodoloma* p. 4, KRAMP.

*Solmundella bitentaculata* p. 4, KRAMP.

†*Sphaeractinia dichotoma* p. 183 fig., MIHAJLOVIĆ.

†Spongiomorphida revised p. F87 fig., HILL & WELLS (2).

†*Stachyodes* (?) **sp.** p. 55, FLÜGEL, E.

†*Stictostroma* p. 111, *problematicum* p. 111 fig., *borealis* **sp. n.** p. 113 fig. Devonian Canada, *erienne* a sp. of *Stictostromella* p. 92, FRITZ & WAINES.

†*Stictostromella* **gen. n.** (fam. Clathrodictyonidae) p. 92 (attributed to Galloway, J. J., & St. Jean, Jr., J.), *erienne* p. 92, *bifidapila* **sp. n.** p. 92 fig. Devonian Canada, *ohioense* p. 93, *crebrapila* **sp. n.** p. 94 fig. Devonian Canada, FRITZ & WAINES Proc. geol. Assoc. Canada 8 1 1956.—*S.* a junior synonym of *Stomatoporella* p. 126, GALLOWAY.

*Stomotoca dinema* pp. 338, 342, 344, 347, REES (1).

†*Stromatocерium rugosum* p. 64 fig., WILSON, A. E.

†*Stromatopora columnaris* p. 51 fig., hüpschii, sp. p. 52, FLÜGEL, E.—*S. gallowayi* p. 98 fig., saintjeani p. 100 fig., **spp. n.** Devonian Canada, FRITZ & WAINES.—*S. sp.* p. 62 fig., HAMILTON.

†*Stromatoporella curiosa carnica* p. 54, decora, sp. 55, FLÜGEL, E.—*S.* a senior synonym of *Stictostromella* p. 126, GALLOWAY.—*S. supercreata* **sp. n.** p. 59 fig., loutouguini form. *postera* form. **n.** p. 60 fig., *S. (Stylopora)* grata **sp. n.** p. 61 fig., Devonian Siberia, [KHALFINA].

†*Stromatoporoidea* revised p. F107 fig., LECOMPTE (1).

†*Stylasterina* revised p. F94 fig., BOSCHMA (5).

†*Stylodictyon* diagnosed p. 90, a synonym of *Syringostroma* p. 126, *robustum* **sp. n.** p. 90 fig. Devonian Canada, FRITZ & WAINES.—*S.* a junior synonym of *Syringostroma* p. 126, GALLOWAY.

†*Stylopora* **subgen. n.** (of *Stromatoporella*) p. 61, type sp. (by original designation) *grata* **sp. n.** p. 61 fig. Devonian Siberia, [KHALFINA] Ann. All-Russian palaeont. Soc. 15 1956.

†*Stylostroma gorskii* **sp. n.** p. 62 fig. Devonian Siberia, [KHALFINA].

*Sulculeolaria biloba* p. 3 fig., TOTTON & FRASER.

†*Syringostroma* p. 102, *aurorella* p. 103 fig., *crebricolumnae* p. 104 fig., *propinquicolumnae* p. 106 fig., *distincticolumnae* p. 108 fig., *reticolumnae* p. 109 fig., **spp. n.** Devonian Canada, FRITZ & WAINES.—*S.* a senior synonym of *Stylodictyon* p. 126, GALLOWAY.

†*Tateana inflata* a synonym of *Ediacaria flindersi* p. F74, HARRINGTON & MOORE (4).

*Tetraplatia volitans* p. 106 fig., BEYER.

*Thalassophyes crystallina* p. 3 fig., TOTTON & FRASER (2).

*Thamnostoma cidaritis* pp. 339, 346, REES (1).—*T. russelli* p. 3 fig., RUSSELL (4).

*Thuiaria thuia* p. 178 fig., LELOUP.

*Tiaranna rotunda* p. 5 fig., RUSSELL (5).

*Tiaropsidium mediterraneum* fig. no page, HUVÉ.—*T. atlanticum* **sp. n.** p. 496 fig. English Channel, RUSSELL (3).

†*Trachylinida* revised p. F68 fig., HARRINGTON & MOORE (4).

*Trichydra pudica* p. 138 fig., LELOUP.

†*Trupetostroma* cf. *warreni* p. 51, *T. ?* sp. p. 51, FLÜGEL, E.

*Tubiclava lucerna* p. 105 fig., LELOUP.—*T.* discussed p. 504, REES (3).

*Tubularia indivisa* p. 108 fig., *larynx* p. 110 fig., LELOUP.

*Turritopsis nutricula* p. 206 fig., LELOUP.

*Vogtia glabra* p. 3 fig., *spinosa* p. 3 fig., *pentacantha* p. 3 fig., *serrata* p. 3 fig., TOTTON & FRASER (4).

*Zanlea gemmosa* p. 193 fig., LELOUP.—*Z. hargitti* p. 184, PICARD.

### †GRAPTOLITHINA

*Acanthograptus sinensis* pp. 23, 54 fig., *flexiramiatus* pp. 23, 54 fig., *bifurcus* pp. 24, 54 fig., *macilentus* pp. 24, 35 fig., *rigidus* p. 24, 55 fig., *flexilis* **sp. n.** pp. 24, 55 fig., *intermedius* **sp. n.** pp. 25, 55 fig., Ordovician China, MU.—? *A. sp.* p. 89 fig., SHERRARD.

*Adelograptus asiaticus* **sp. n.** pp. 30, 61 fig., *sinicus* pp. 30, 61 fig., Ordovician China, MU.

*Airograptus* diagnosed pp. 13, 44, aff. *furciferus* pp. 13, 44 fig., MU.

*Amplexograptus confertus* p. 26 fig., LEMON & CRANSWICK.

*Anisograptus lui* pp. 26, 57 fig., cf. *matanensis* var. *tetragraptoides* pp. 27, 58 fig., MU.

*Aspidograptus* sp. pp. 17, 48 fig., MU.

*Azygograptus fasciculatus* p. 16 fig., LEMON & CRANSWICK.

*Bryograptus yengtaiensis* pp. 27, 58 fig., *chekiangensis* pp. 28, 59 fig., *B. ? shengi* pp. 28, 59 fig., **spp. n.** Ordovician China, MU.

*Callograptus staufferi* pp. 14, 45 fig., *curvithecalis* **sp. n.** pp. 15, 45 fig. Ordovician China, *sinicus* **sp. n.** pp. 15, 46 fig. Ordovician China, aff. *hopkinsoni* pp. 16, 46 fig., *yangtzensis* **sp.**

**n.** pp. 16, 46 fig. Ordovician China, *C. ? taitzeensis* pp. 17, 47 fig., var. *minor* **var. n.** pp. 17, 47 fig. Ordovician China, MU.—*C.* p. 85, *disiectus* p. 86 fig., *arundinosus* p. 86 fig., **spp. n.** Ordovician New South Wales, SHERRARD.

*Climacograptus rectangularis* var. *kuruiensis* **var. n.** p. 92 fig. Silurian Southern Urals, *scalaris* p. 93 fig., *medius* p. 93 fig., [BONDARENKO & KELLER].—*C. inuiti similis* p. 67 fig., WILSON, A. E.

*Clonograptus tenellus* var. *calavei* pp. 29, 60 fig., MU.

*Coremagraptus* ? sp. pp. 25, 56 fig., MU.

*Cryptograptus tricornis schäferi* p. 19 fig., LEMON & CRANSWICK.

*Cyrtograptus* (*Cyrtograptus*) *hamatus* pp. 48, 87, 113 fig., *perneri* pp. 49, 88, 114 fig., *lundgreni* pp. 50, 88, 114 fig., TOMCZYK.

*Demirastrites pribyli* **sp. n.** pp. 433, 472, 484 fig. Silurian Bohemia, BOUČEK.

*Dendrograptus* sp. pp. 18, 48 fig., *odontocauloides* pp. 18, 48 fig., *sinensis* pp. 48, 49 fig., *sunii* **sp. n.** pp. 19, 50 fig. Ordovician China, *y-wangi* pp. 19, 50 fig., *liaotungensis* pp. 19, 50 fig., *flexiramis* pp. 20, 50 fig., *lotolatzensis* pp. 20, 51 fig., *hsuii* pp. 21, 52 fig., *yangtzensis* pp. 21, 52 fig., *yini* pp. 22, 52 fig., var.  $\alpha$  pp. 22, 53 fig., var.  $\beta$  pp. 22, 53 fig., *hupehensis* pp. 22, 53 fig., **spp. n.** Ordovician China, *ptilograptoides* pp. 21, 51 fig., MU.—*D. rectangularis* p. 86 fig., *nudus* p. 87 fig., **spp. n.** Ordovician New South Wales, ? *D.* sp. p. 87 fig., SHERRARD.

*Desmograptus* sp. pp. 13, 43 fig., MU.—*D. quinquelateralis* p. 88 fig., *spongiosus* p. 88 fig., **spp. n.** Ordovician New South Wales, SHERRARD.

*Dichograptid* stipe indet. p. 19, LEMON & CRANSWICK.

*Dictyonema* sp. p. 176, GRIGORAŞ.—*D.* spp. p. 4, LEMON & CRANSWICK.—*D. wutingshanense* **sp. n.** pp. 7, 38 fig. Cambrian China, sp. A pp. 8, 39 fig., *flabelliforme* var. *liaotungense* pp. 8, 39 fig., *uniforme* pp. 9, 40 fig., *flexiliramosus* pp. 10, 40 fig., *asiaticum* pp. 10, 41 fig., *szechuanense* pp. 11, 41 fig., sp. B pp. 11, 42 fig., sp. C pp. 11, 42

fig., aff. *delicatulum* pp. 12, 42 fig., MU.—*D. apertum* p. 83 fig., *salebrosum* p. 83 fig., **spp. n.** Ordovician New South Wales, *favosum* p. 84 fig., *vinculosum* p. 84 fig., **spp. n.** Silurian New South Wales, SHERRARD.

*Didymograptus stabilis* p. 8 fig., *pandus* p. 8 fig., *protobifidus* p. 8 fig., *bifidus* p. 10 fig., *amboensis* **sp. n.** p. 10 fig. Llanvirnian Peru, *artus* p. 12 fig., *miserabilis* p. 13 fig., aff. *cognatus* p. 13 fig., sp. p. 13, *nitidus* p. 14 fig., LEMON & CRANSWICK.—*D.* see also *Isograptus*.

*Diplograptus amplexicaulus* cf. *per-tenuis* [as *pertenius* (sic)] p. 67 fig., WILSON, A. E.

*Globosograptus* see *Monograptus*.

*Glossograptus hincksii* p. 20 fig., LEMON & CRANSWICK.

*Glyptograptus dentatus* p. 24 fig., *euglyphus pygmaeus* p. 26 fig., LEMON & CRANSWICK.

*Gothograptus nassa* pp. 42, 84, 110 fig. TOMCZYK.

*Inocaulis sinensis* **sp. n.** pp. 25, 56 fig., [as *sinicus* (sic) on p. 56] Ordovician China, *I.* ? sp. A pp. 26, 56 fig., sp. B pp. 26, 57 fig., MU.

*Isograptus caduceus* ? *armatus* p. 14 fig., LEMON & CRANSWICK.—*I.* (*Didymograptus*) *caduceus* transitional form p. 90, SHERRARD.

*Janograptus peruviensis* **sp. n.** p. 14 fig., var. *attenuatus* **var. n.** p. 16 fig., Llanvirnian Peru, LEMON & CRANSWICK.

*Monoclimacis crenulata* p. 93 fig., [BONDARENKO & KELLER].

*Monograptus clingani* p. 93 fig., [BONDARENKO & KELLER].—*M. dubius* p. 175 fig., *colonus* p. 175 fig., *nilssoni* p. 175 fig., *bohemicus* p. 176 fig., *zarizeliensis* p. 176 fig., aff. *attenuatus* p. 176 fig., sp. p. 176 fig., GRIGORAŞ.—*M.* (*Monograptus*) *scanicus* pp. 46, 86, 112 fig., *M.* (subgen. ?) *testis testis* pp. 47, 86, 112 fig., *M.* (*Globosograptus*) *crinitus* pp. 48, 87, 113 fig., TOMCZYK.

*Phyllograptus angustifolius* p. 6 fig., aff. *anna* p. 6 fig., LEMON & CRANSWICK.

*Plectograptus macilentus* pp. 44, 85, 111 fig., TOMCZYK.

*Pristiograptus concinnus* p. 93 fig., *largus* p. 93 fig., [BONDARENKO & KELLER].—*P. (Pristiograptus) nilssoni* pp. 51, 89, 115 fig., *butovicensis* pp. 52, 89, 115 fig., *vulgaris vulgaris* pp. 53, 90, 116 fig., *tumescens tumescens* pp. 54, 90, 116 fig., cf. *ultimus* pp. 54, 91, 116 fig., *P. (Saetograptus) chimaera chimaera* pp. 55, 91, 117 fig., *chimaera salweyi* pp. 56, 91, 117 fig., *chimaera semispinosus* pp. 57, 92, 117 fig., *leintwardinensis leintwardinensis* pp. 57, 92, 118 fig., *leintwardinensis incipiens* pp. 58, 93, 118 fig., TOMCZYK.

*Ptilograptus glomeratus* var. *sinicus* var. n. pp. 22, 53 fig. Ordovician China, Mu.—*P. scalaris* sp. n. p. 89 fig. Ordovician New South Wales, *discurrens* sp. n. p. 89 fig. Silurian New South Wales, SHERRARD.—? *P.* sp. p. 4, LEMON & CRANSWICK.

*Reticulograptus yangi* sp. n. pp. 12, 43 fig. Ordovician China, Mu.—*R. undulosum* sp. n. p. 85 fig. Silurian New South Wales, SHERRARD.

*Retiolites geintzianus* p. 93 fig., var. *obliquidens* p. 93 fig., [BONDARENKO & KELLER].

*Saetograptus* see *Pristiograptus*.

*Spinograptus spinosus* pp. 45, 85, 111 fig., TOMCZYK.

*Spirograptus* [as *Srirograptus* (sic)] *spiralis* p. 93 fig., [BONDARENKO & KELLER].

*Stomatograptus* sp. p. 93 fig., [BONDARENKO & KELLER].

? *Thamnograptus* fragments p. 89, SHERRARD.

## SCYPHOZOA

*Aurelia aurita* p. 238 fig., LELOUP.

†Brooksellida ord. n. (of Proto-medusae) p. F21, HARRINGTON & MOORE in Moore, Treatise on Invertebrate Paleontology F Coelenterata 1956.

*Catostylus perezii* p. 241, KRAMP (1).

*Charybdea* [as *Carybdea* (sic)] *rastonii* p. 5, KRAMP.

Chironecidae fam. n. p. 278, SOUTHCOTT Aust. J. mar. & freshw. Res. 7 2 1956.

*Chironex* gen. n. (fam. Chironecidae) p. 259, type sp. (by original designation) *fleckeri* sp. n. p. 259 fig. Queensland and Northern Territory, SOUTHCOTT Aust. J. mar. & freshw. Res. 7 2 1956.

*Chiropsalmus quadrumanus* p. 273 fig., SOUTHCOTT.

*Chiropsoides* nom. n. (for *Drepanochirus* Krumbach non Péringuey) pp. 276, 277, type sp. *D. buitendijki* p. 276 Madras, SOUTHCOTT Aust. J. mar. & freshw. Res. 7 2 1956.

Chiropsoididae nom. n. for Drepanochiridae p. 276, SOUTHCOTT Aust. J. mar. & freshw. Res. 7 2 1956.

*Chrysaura hyoscella* p. 237 fig., LELOUP.

*Crambionella orsini* p. 241, KRAMP (1).

*Cyanea hydra tuba* p. 349 fig., HARLEY.—*C. capillata* p. 233 fig., LELOUP.

*Drepanochirus* Krumbach non Péringuey re-named *Chiropsoides* pp. 276, 277, SOUTHCOTT.

*Nausithoe atlantica* p. 363 fig., *globifera* p. 366 fig., RUSSELL (1).

*Paraphyllina ransoni* sp. n. p. 105 fig. English Channel, RUSSELL.

*Pelagia noctiluca* p. 240, KRAMP (1).—*P. perla* p. 235 fig., LELOUP.

†Protomedusae p. F21 fig., HARRINGTON & MOORE.

*Rhizostoma octopus* p. 231 fig., LELOUP.

*Sanaëria malayensis* p. 240, KRAMP (1).

Scyphomedusae revised p. F38 fig., HARRINGTON & MOORE (2).

†Scyphozoa revised p. F27, HARRINGTON & MOORE.

*Tamoya gargantua* p. 237, KRAMP (1).

*Tetraplatia*—see HYDROZOA.

## ANTHOZOA

### ALCYONARIA

*Acabaria* p. 88, *bicolor* p. 88 fig., BAYER.

†Alcyonaria revised p. F166 fig., BAYER (1).

*Alcyonium digitatum* p. 242 fig., LELOUP.

*Anthorgia bocki* p. 244 fig., UTINOMI (2).

*Anthothela* p. 86, *nuttingi* **nom. n.** (for *Clematissa alba* Nutting not *Anthothela alba* Grieg sp.) p. 86 fig., BAYER.

Anthothelidae p. 84, BAYER.

Anthothelinae p. 84, BAYER.

*Antilogorgia acerosa* p. 156, PAX & MÜLLER.

*Capnella fungiformis* p. 231 fig., UTINOMI (1).

*Chelidonis capensis* p. 48 fig., PAX & MÜLLER (8).

*Clavularia spongicola* p. 459 fig., *multispiculosa* p. 461 fig., *mikado* p. 464 fig., **spp. n.** Japan, UTINOMI.—*C. inflata* p. 223, UTINOMI (1).

*Clematissa alba* Nutting is a junior homonym of *Anthothela alba* Grieg sp. and re-named *nuttingi* p. 86, BAYER.

Coralliidae discussed p. 70, BAYER.

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†*Heliopora bellardii* p. 79 fig., KOLOSVÁRY.

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†Trachypsammia **ord. n.** p. F190 Permian, MONTANARO-GALLITELLI in Moore, R. C., Treatise on Invertebrate Paleontology **F** 1956.

†Trachypsammidae p. F190, MONTANARO-GALLITELLI.

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†*Barrandeophyllum* see *Syringaxon*.

*Bathydactylus kroghi* **sp. n.** p. 14 fig. Kermadec Trench, S.W. Pacific, CARLGREN.

†*Bergaueria* **gen. n.** (Cerianthid or fam. Edwardsiidae) p. 4, type sp. (by original designation) *perata* **sp. n.** p. 6 fig. Ordovician Czechoslovakia, PRANTL Rozpr. II Tříd. česk. Akad. 55 3 1946.

†*Brachyelasma oanduensis* p. 71 fig., *concava* p. 72 fig., **spp. n.** Ordovician Esthonia, [KALJO].

†*Brachyseris wellsi* p. 58 fig., *montemarina* p. 58 fig., **spp. n.** Cretaceous Mid-Pacific, HAMILTON.

†*Breviphyllum mons* **sp. n.** p. 20 fig. Devonian Minorca, sp. p. 22 fig., CLAUS.

*Bunodactis verrucosa* p. 249 fig., LELOUP.

†*Calamophyllia crenaticostata* p. 70 fig., *subtilis* p. 70 fig., *stereoplasmophyla* **sp. n.** p. 70 fig. Eocene Hungary, *grandis* p. 70 fig., cf. *rosicensis* p. 70 fig., *pseudoflabellum pseudoflabellum*, *pseudoflabellum nodosa* p. 70, sp. p. 70 fig., KOLOSVÁRY.

*Calliactis parasitica* p. 259 fig., LELOUP.

†*Caninophyllum archiaci* var. *densa* **var. n.** p. 9 fig. Carboniferous Sahara, FABRE.

†*Carcinophyllum coronatum* **sp. n.** p. 9 fig. Carboniferous Sahara, FABRE.

*Caryophyllia clavus* p. 165, PAX & MÜLLER (1).

*Cereus pedunculatus* p. 252 fig., LELOUP.

*Cerianthus lloydii* p. 244 fig., LELOUP.

†*Circophyllia* sp., *hantkeni* p. 71, cf. *gibba* p. 71 fig., *annulata* p. 71 fig., *d'achiardi* p. 71, cf. *costata* p. 71 fig., KOLOSVÁRY.

†*Circophyllum* sp. p. 225 fig., DUNCAN(1).

*Cladocora cespitosa* p. 163, PAX & MÜLLER (1).

†*Coccophyllum acanthophorum* p. 19 fig., SQUIRES.

*Coeloria lamellina* p. 33, ROSSI.

†*Confusastraea* [as *Confusastrea* (sic)] *cowichanensis* partim is *Elysastraea profunda* p. 25, SQUIRES.

†*Cyathoclisia coniseptum* p. 69 fig., [VOINOVSKII-KRIGER].

†*Cyathophylloides* pp. 218, 225 fig., DUNCAN (1).—*Cyathophylloides* p. 69, *asper* **sp. n.** pl. 68 Ordovician Siberia, [SOKOLOV].

†*Cyathophyllum basaltiformis* is a sp. of *Xystriphyllum* p. 16, CLAUS.

†*Cyathoseris dinarica* p. 76 fig., *formosa* p. 76 fig., *legányii* **sp. n.** p. 76 fig. Eocene Hungary, *multistellata* p. 76 fig., *subregularis* p. 76 fig., KOLOSVÁRY.

†*Cyclolites rhomboideus*, *héberti* p. 77, KOLOSVÁRY.

†*Cycloseris* sp. p. 75, *perezi* p. 75 fig., *brazzaensis* p. 75, *hungaricus* **sp. n.** p. 75 fig. Eocene Hungary, KOLOSVÁRY.

†*Cylicosmia legányii* **sp. n.** p. 72 fig. Eocene Hungary, cf. *altavillensis* p. 72 fig., ? *C.* sp. p. 73 fig., KOLOSVÁRY.

*Cyphastraea microphthalma* p. 34, ROSSI.—*C.* [as *Cyphastrea* (sic)] *chalcidicum* p. 21 fig., SEARLE.—*C.* [as *Cyphastrea* (sic)] *chalcidicum* p. 39, STEPHENSON & WELLS.

†*Cystiphyllum omphymiforme* p. 625 fig., TSIN.

*Daontesia mielchei* **sp. n.** p. 15 fig. Dutch East Indies, CARLGREN.

†*Dendracis* sp. p. 68, KOLOSVÁRY.

*Dendrophyllia ramea* p. 167 fig., PAX & MÜLLER (1).—*D. micranthus* p. 43 fig., ROSSI.—*D. nigrescens* p. 24 fig., SEARLE.

†*Depasophyllum adnetum* is a sp. of *Amplexocarinia* p. 85, SMITH.

†*Desmocladia septifera* p. 71 fig., KOLOSVÁRY.

†*Dibunophyllum bipartitum* p. 234 fig., COOPE.—*D. bipartitum bipartitum* p. 130 fig., *konincki* p. 130 fig., *craigianum* p. 131 fig., JOHNSON.—*D.* cf. *asiaticum* p. 254 fig., sp. A p. 254 fig., sp. B p. 255 fig., sp. C p. 257 fig., SATO.

†*Dictyaraea octopartita* p. 68 fig., KOLOSVÁRY.

†*Diplaraea alloiteaui* **sp. n.** p. 181 fig. Jurassic Germany, POLVÊCHE.

*Diploastraea* [as *Diploastrea* (sic)] *heliopora* p. 21 fig., SEARLE.

†*Discocoenia* cf. *bononiensis* p. 205 fig., KOLOSVÁRY (3).

†*Discoidocyathus* **gen. n.** (fam. Caryophylliidae) p. 74, *eocaenicus* p. 74 fig., *subtilis* p. 74 fig., **spp. n.** Eocene Hungary, KOLOSVÁRY Bull. hung. geol. Soc. 86 1 1956.

†*Disphyllum goldfussi* p. 12 fig., CLAUS.—*D. caespitosum* p. 7, FLÜGEL, H. (2).

*Echinopora gemmacea* p. 34 fig., ROSSI.—*E. lamellosa* p. 21 fig., SEARLE.

†*Elysastraea profunda* p. 25 fig., *major* p. 26 fig., SQUIRES.

†*Entelophyllum* p. 227 fig., DUNCAN (1).—*E. sp.* p. 36 fig., FLÜGEL, H. (1).

†*Epismilia excelsa* p. 187 footnote, POLVÊCHE.

*Epizoanthus paxii* **sp. n.** p. 1 fig. Adriatic Sea, ABEL.—*E. liguricus*, *arenaceus* p. 6, *arenaceus* subsp. *gascognensis* **subsp. n.** p. 8 fig. Gulf of Gascony, *arenaceus* subsp. *belloci* **subsp. n.** p. 10 fig. Ligurian Sea, *arenaceus ingeborgae* p. 11, *paguriphilus* p. 12, *incrustedatus* p. 13, *erdmanni* p. 14, *fatuus* p. 15, PAX & MÜLLER (2).—*E. p.* 419, *senegambiensis* p. 420 fig., *auronitens* **sp. n.** p. 427 fig. Senegal, PAX & MÜLLER (3).—*E. senegambiensis* p. 2 fig., PAX & MÜLLER (4).

†*Eridophyllum bartrumi* type sp. of *Tipheophyllum* p. 9 fig., HILL.

*Euphyllia glabrescens* p. 23 fig., *fimbriata* p. 23 fig., SEARLE.

†*Euphyllia contorta*, *forojuliensis* p. 73, KOLOSVÁRY.

*Favia favius*, *speciosa* p. 31, ROSSI.—*F. speciosa* p. 19 fig., *abditata* p. 20 fig., SEARLE.—*F. pallida* p. 29, *favius*, var. *crassidens*, *speciosa* p. 30, STEPHENSON & WELLS.

†*Favistella* pp. 218, 225 fig., DUNCAN (1).—*F. p.* 240, pl. 68, [SOKOLOV].

†Favistellidae pl. 67, [SOKOLOV].

*Favites virens* p. 32 fig., *complanata* p. 32, ROSSI.

*Flabellum stokesi* p. 25 fig., SEARLE.

†*Flabellum* sp. p. 75 fig., KOLOSVÁRY.

†*Fletcheria* sp. p. 228 fig., DUNCAN (1).

*Fungia* keys p. 38, *scruposa*, *concinna* p. 40, *fungites*, *echinata*, *scularia* p. 41, *cyclolites* p. 42, ROSSI.—*F. actiniformis* p. 17 fig., *fungites* p. 17 fig., *repanda* p. 17 fig., *echinata* p. 17 fig., SEARLE.

*Galatheanthemidae* **fam. n.** p. 10, CARLGREN *Galathea* Rep. 2 1956.

*Galatheanthemum* **gen. n.** (fam. Galatheanthemidae) p. 10, type sp. (by original designation, p. 12) *profundale* **sp. n.** p. 10 fig. Kermadec Trench, S.W. Pacific, *hadale* **sp. n.** p. 12 fig. off the Philippines, CARLGREN *Galathea* Rep. 2 1956.

*Galaxea fascicularis* p. 35, ROSSI.—*G.* [as *Galaxea* (sic)] *fascicularis* p. 22 fig., SEARLE.—*G. fascicularis* p. 41, STEPHENSON & WELLS.

†*Geyerophyllum carnicum* p. 117 fig., KOSTIČ-PODGORSKA.

*Goniastrea* [as *Goniastrea* (sic)] *pectinata* p. 33 fig., ROSSI.—*G. benhami* p. 1 fig., ROSSI (1).—*G. pectinata* p. 20 fig., *retiformis* p. 20 fig., *benhami* p. 20 fig., SEARLE.—*G. benhami* p. 33 fig., *mantoniae* is *pectinata* p. 34, STEPHENSON & WELLS.

†*Goniastrea* sp. p. 68, KOLOSVÁRY.

*Goniopora planulata* p. 54 fig., ROSSI.—*G. malaccensis* p. 18 fig., *lobata* p. 18 fig., *stutchburyi* p. 18 fig., *fruticosa* p. 18 fig., cf. *columna* p. 19 fig., SEARLE.—*G. "minor"* p. 27, STEPHENSON & WELLS.

†*Goniopora* sp. p. 78 fig., *ameliana* p. 78 fig., *pellegrini* p. 78 fig., *katzeri* p. 78 fig., *rudis* p. 78 fig., KOLOSVÁRY.

†*Grewinkia robusta* p. 218 fig., DUNCAN (1).

*Hadalanthus* **gen. n.** (fam. Actinostolidae) p. 13, type sp. (by original designation) *knudseni* **sp. n.** p. 13 fig. Kermadec Trench, S.W. Pacific, CARLGREN *Galathea* Rep. 2 1956.

*Herpolitha limax* p. 17 fig., SEARLE.

†*Heterophyllia* p. F327, H. (H.) *grandis* p. F327 fig., H. (*Heterophylloides*) *reducta* p. F327 fig., HILL (2).

†*Hexagonaria allani* sp. n. p. 8 fig. Devonian New Zealand, sp. p. 9 fig., HILL.

†*Hexaphyllia mirabilis* p. F327 fig., HILL (2).—*H.* sp. p. 259 fig., SATO.

†“*Holophragma*” sp. p. 218 fig., DUNCAN (1).

*Hydnophora exesa* p. 20 fig., *rigida* p. 21 fig., SEARLE.

†*Hydnophyllia* sp., *collinaria*, *profunda* p. 69, KOLOSVÁRY.

†*Isastraea elegans* p. 69 fig., KOLOSVÁRY.—*I. profunda* a sp. of *Elysastraea*, *whiteavesi* is *profunda* p. 25, SQUIRES.

†*Koninkophyllum magnificum* p. 235 fig., COOPE.—*K.* sp. p. 257 fig., SATO.

†*Kueichouphyllum yabei* p. 513 fig., FLÜGEL & KIRATLIOĞLU.

†*Lambeophyllum dybowski* sp. n. p. 68 fig. Ordovician Esthonia, [KALJO].—*L. profundum* p. 64 fig., WILSON, A. E.

†*Leolasma sociale* sp. n. p. 70 fig. Ordovician Esthonia, [KALJO].

†*Leptaxis* sp. p. 73 fig., KOLOSVÁRY.

†*Leptophyllia* sp., *dubrawitzensis* p. 77, KOLOSVÁRY.

*Leptoria phrygia* p. 20 fig., SEARLE.

†*Lithostrotion* (*Siphonodendron*) *asiatica* var. *minor* p. 248 fig., *pauciradiale* p. 249 fig., *L. somaense* p. 249 fig., SATO.

*Lobophyllia corymbosa* p. 35, *costata* p. 36, ROSSI.—*L. hemprichii* p. 22 fig., SEARLE.—*L. corymbosa* possibly synonymous with *costata* and *hemprichi* p. 42, STEPHENSON & WELLS.

†*Lonsdaleia duplicata*, *floriformis* validated p. 87, OPINION 419.—*L. (Stylidophyllum) floriformis* subsp. *abukumensis* subsp. n. p. 250 fig. Carboniferous Japan, *japonica* p. 252 fig., sp. ind. p. 253 fig., SATO.—*L. duplicata duplicata* neotype p. 122, *floriformis floriformis* neotype p. 123, STUBBLEFIELD.

*Lophelia pertusa* p. 166 fig., PAX & MÜLLER (1).

†*Lophocarinophyllum acanthiseptum* p. 116 fig., KOSTIČ-PODGORSKA.

†*Lopholasma carbonarium* p. 115 fig., KOSTIČ-PODGORSKA.

†*Lophophyllidium profundum* p. 116 fig., KOSTIČ-PODGORSKA.—*L. profundum* p. 1031, STEHLI.

†*Lophosmilia fundimaritima* sp. n. p. 60 fig. Cretaceous Mid-Pacific, HAMILTON.

†*Macgeea bathycalyx* subsp. *bathycalyx* pp. 289, 324 fig., subsp. *kasimiri* subsp. n. pp. 289, 324 fig., subsp. *josephi* subsp. n. pp. 294, 325 fig. subsp. *regularis* subsp. n. pp. 298, 325 fig., subsp. *longiseptata* subsp. n. pp. 299, 325 fig., *bathycalyx* mut. *amabilis* mut. n. pp. 301, 325 fig., Devonian Poland, RÓZKOWSKA.

*Madrepora oculata* p. 164, PAX & MÜLLER (1).

*Merulina ampliata* p. 22 fig., SEARLE.

*Metridium senile* p. 257 fig., LELOUP.

†*Microsolena* sp. p. 59 fig., HAMILTON.

†*Montastraea* [as *Montastrea* (sic)] *menardi* p. 59 fig. Cretaceous Mid-Pacific, HAMILTON.

*Montipora erythraea* p. 44, *venosa* p. 45, *meandrina* p. 45 fig., ROSSI.—*M. informis* p. 14 fig., *fruticosa* p. 14 fig., *laevis* p. 14 fig., *solanderi* p. 15 fig., *efflorescens* p. 15 fig., *striata* p. 15 fig., *prolifera* p. 15 fig., *M. ? crista-galli* p. 15 fig., SEARLE.—*M. divaricata* p. 20, *prominula* may be *divaricata* p. 21, *erythraea* may be *striata* p. 21, *informis* may be *patula* p. 22, *minuta* may be *composita* p. 22, STEPHENSON & WELLS.

†*Montlivaltia* [as *Montlivaultia* (sic)] *excelsa* is a sp. of *Epismilia* p. 187 footnote, POLVÊCHE.—*M. norica* p. 21 fig., SQUIRES.

*Myccidium elephantotus* p. 36 fig., ROSSI.—*M. tubifex* p. 23 fig., SEARLE.

†*Nanshanophyllum* subgen. n. (of *Ptychophyllum*) pp. 601, 612, type sp. (by original designation) *typicum* sp. n. pp. 601, 613 fig. Silurian China, Yü Acta palaeont. Sinica 4 4 1956.

†*Neokoninkophyllum* sp. p. 118 fig., KOSTIČ-PODGORSKA.

†*Oculinine* coral indet. p. 61 fig., HAMILTON.

†*Odontocyathoides* gen. n. (fam. Caryophylliidae) p. 74, type sp. (by original designation) *semiarmatus* sp. n. p. 74 fig. Eocene Hungary, KOLOSVÁRY Bull. hung. geol. Soc. 86 1 1956.

†*Oppelismilia zitteli* p. 18 fig., SQUIRES.

†*Orbicella* sp. ? p. 69, *katzeri* p. 69 fig., *alpina* p. 69 fig., cf. *schuberti* p. 69 fig., *bosniaca* p. 69 fig., KOLOSVÁRY.

*Oulastraea* [as *Oulastrea* (sic)] *crispata* p. 21 fig., SEARLE.

*Oxypora lacera* p. 37 fig., ROSSI.—*O. lacera* p. 22 fig., SEARLE.

†*Pachygyra* sp. p. 73 fig., KOLOSVÁRY.

†*Pachyphyllum sobolewi* **sp. n.** pp. 317, 326 fig. Devonian Poland, RÓZKOWSKA.

*Pachyseris speciosa* p. 16 fig., SEARLE.

†*Pachyseris murchisoni* p. 77 fig., KOLOSVÁRY.

†*Palaeastraea* sp. p. 24, SQUIRES.

†*Palaeophyllum* pp. 218, 225 fig., DUNCAN (1).

†*Palaeosmia murchisoni* p. 258 fig., SATO.

*Palythoa* p. 430, *senegambiensis* a sp. of *Epizoanthus* p. 420, *dartevillei* p. 431 fig., *monodi* **sp. n.** p. 433 fig. Senegal, *variabilis* p. 439 fig., *senegalensis* **sp. n.** p. 443 fig. Senegal, PAX & MÜLLER (3).—*P. monodi* p. 9, PAX & MÜLLER (4).—*P. gregorii* p. 10 fig., PAX & MÜLLER (5).—*P. chlorostoma* **sp. n.** p. 230 fig. Tahiti, *dysancrita* p. 232 fig., *ceresina* p. 237 fig., *leucochiton* p. 245 fig., **spp. n.** Tuamotu Islands, *poeciloderma* **sp. n.** p. 242 fig. New Caledonia, PAX & MÜLLER (6).

*Paracyathus stokesi* p. 23 fig., SEARLE.

*Paraedwardsia lemchei* **sp. n.** p. 9 fig. Dutch East Indies, CARLGREN.

†*Parasmilia acuticristata* p. 73 fig., ? *P. sp.* p. 73 fig., KOLOSVÁRY.

*Parazoanthus* p. 2, *axinellae liguricus* p. 2, *anguicomus* p. 4, *tunicans* p. 5, PAX & MÜLLER (2).—*P. axinellae* p. 1, PAX & MÜLLER (4).

†*Pattalophyllia nosvaiensis* **sp. n.** p. 77 fig. Eocene Hungary, KOLOSVÁRY.

*Pavona danai* p. 42, ROSSI.—*P. frondifera* p. 15 fig., *crassa* p. 15 fig., SEARLE.

*Pectinia lactuca* p. 23 fig., SEARLE.

†*Peneckiella* discussed p. 355, *minima* p. 358 fig., FLÜGEL, H.—*P. achanayensis* p. 11, FLÜGEL, H. (2).

†*Phacellophyllum trigemme* p. 14 fig., CLAUSS.

†*Phillipsastraea roemeri* p. 17 fig., CLAUSS.

†*Pinacophyllum parviseptum* p. 7 fig. Triassic Idaho, SQUIRES.

†*Placosmia bilobata* p. 74, *cornu* p. 74 fig., KOLOSVÁRY.

*Platygyra phrygia* p. 33, ROSSI.—*P. lamellina* p. 20 fig., SEARLE.—*P. discussed* p. 36, *lamellina* p. 35, STEPHENSON & WELLS.

*Plerogyra sinuosa* p. 23 fig., SEARLE.

†*Pleurosma martis* **sp. n.** p. 185 fig. Jurassic France, POLVÊCHE.

*Pocillopora favosa* p. 30, *hemprichi* p. 30 fig., ROSSI.—*P. damicornis* p. 13 fig., *verrucosa* p. 13 fig., SEARLE.

*Podabacia crustacea* p. 17 fig., SEARLE.

†*Podabacia* sp. p. 77, cf. *patula* p. 77 fig., KOLOSVÁRY.

†*Polycoelia* (*Weissermelia*) *cava* **sp. n.** p. 18 fig. Devonian Minorca, CLAUSS.

*Polyphyllia talpina* p. 17 fig., SEARLE.

*Porites solida*, *lutea* p. 55, *columnaris* p. 57 fig., *nodifera* p. 57 fig., ROSSI.—*P. nigrescens* p. 19 fig., *lutea* p. 19 fig., *P. (Synaraea) convexa* p. 19 fig., SEARLE.

†*Porites crustulum* p. 78, KOLOSVÁRY.

†*Protomacgea* **gen. n.** (fam. Phillipsastraeidae) pp. 282, 323, type sp. (by original designation) *dobruchnensis* **sp. n.** pp. 281, 323 fig. Devonian Poland, RÓZKOWSKA *Acta palaeont. polon.* 14 1956.

*Psammocora contigua* p. 16 fig., *P. (Stephanaria) togianensis* p. 16 fig., SEARLE.

*Pseudosiderastraea* [as *Pseudosiderastrea* (sic)] *tayamai* p. 22 fig., SEARLE.

†*Ptychophyllum* sp. ind. pp. 602, 614 fig., YÜ.—*P.* see also *Nanshanophyllum*.

†*Pycnactis* sp. p. 226 fig., DUNCAN (1).

†*Rhabdophyllia* sp. p. 71, cf. *budense* p. 71 fig., KOLOSVÁRY.

†*Rugosa* revised, HILL (1).—*Rugosa* **gen. et sp. ind.** p. 10, HILL.

*Sagartia troglodytes* p. 254 fig., LELOUP.

*Scapophyllia cylindrica* p. 21 fig., SEARLE.

*Scleractinia* revised p. F328, WELLS.

*Seriatopora hystrix* p. 13 fig., SEARLE.

*Siderastraea* [as *Siderastrea* (sic)] *savignyana* p. 42, ROSSI.

†*Smilotrochus hungaricus* **sp. n.** p. 71 fig. Eocene Hungary, *incurvus* p. 72 fig., KOLOSVÁRY.

†*Solenastraea monteivalens* p. 69 fig., KOLOSVÁRY.

†Solitary coral pl. 2, fig. 3b, DERANIYAGALA.

†*Sphenotrochus* sp. p. 74 fig., KOLOSVÁRY.

†*Stauria prolifera* p. 625 fig., TSIN.

*Stephanaria* see *Psammocora*.

†*Stephanosmilia* sp. p. 74 fig., *annulata* p. 74 fig., KOLOSVÁRY.

†*Streptelasma* aff. *latusculum* p. 218 fig., aff. *cylindricum* p. 226 fig., *trilobatum* pp. 218, 226 fig., aff. *prolongatum* p. 218 fig., aff. *goniophylloides* p. 218 fig., aff. *foersteri* p. 218 fig., DUNCAN (1).—*S. corniculum* p. 64 fig., WILSON, A. E.

†*Stylina norica* p. 13, SQUIRES.

†*Stylocoenia tauriensis* p. 73, *lobatorotunda* p. 73 fig., KOLOSVÁRY.

*Stylophora pistillata* p. 28, *subseriata* p. 29, ROSSI.—*S. mordax* p. 13 fig., SEARLE.

†*Stylophora distans* p. 68 fig., *annulata* p. 68 fig., KOLOSVÁRY.—*S. aff. raristella* p. 30 fig., SILVA.

†*Stylophyllum paradoxum* p. 17 fig., SQUIRES.

*Symphyllia nobilis* p. 22 fig., SEARLE.

*Synarachnactis bournei* p. 245 fig., LELOUP.

*Synaraea* see *Porites*.

†*Syringaxon* (*Syringaxon*) *nanus* p. 33, cf. *curta* p. 34, *S. (Barrandeophyllum)* **sp. n.** aff. *perplexum* p. 35 fig. Silurian Austria, FLÜGEL, H. (1).

*Tealia felina* p. 250 fig., LELOUP.

†*Thamnasteria smithi* p. 13 fig., *T. (Astraeomorpha) cuneata* p. 15 fig., **spp. n.** Triassic Idaho, SQUIRES.—*T. [as Thamnastraea (sic)] leptopetala* p. 77, KOLOSVÁRY.

†*Thamnophyllum skalense* **sp. n.** pp. 304, 325 fig. Devonian Poland, *caespitosum* pp. 308, 325 fig., *trigemme* pp. 310, 326 fig., subsp. *pajchela* **subsp. n.** p. 314, 326 fig. Devonian Poland, RÓŻKOWSKA.

†*Thecocyathus mecsekensis* **sp. n.** p. 206 fig. Jurassic Hungary, KOLOSVÁRY.

†? *Thecosmilia* cf. *suttonensis* p. 22 fig., *T. cf. dawsoni* p. 23 fig., SQUIRES.

*Thoracactis topsenti* p. 16 fig., PAX & MÜLLER (2).

†*Thysanophyllum vinassai* p. 117 fig. KOSTIĆ-PODGORSKA.

†*Tipheophyllum* **gen. n.** (fam. *Phillipsastracidae*) p. 9, type species (by original designation) *Eridophyllum bartumi* p. 9 fig., Devonian New Zealand, HILL New Zeal. geol. Surv. Paleont. Bull. 25 1956.

*Trachyphyllia geoffroyi* p. 21 fig., SEARLE.

†*Trochocyathus* sp. p. 74 fig., *concinus* p. 74 fig., KOLOSVÁRY.—*T. bellingherianus* p. 125 fig., *polyhedrus* p. 126 fig., *oboeus* var. *derthonensis* p. 127 fig., SALVATORI.

†*Trochoseris* sp. p. 75, *d'achiardi* p. 75 fig., KOLOSVÁRY.

†*Trochosmilia* sp., cf. *acutimargo* p. 72, *brachiopoda* p. 72 fig., cf. *oldhami* p. 72 fig., KOLOSVÁRY.

†*Tryplasma* sp. p. 226 fig., DUNCAN (1).

*Tubastraea* [as *Tubastrea* (sic)] *diaphana* p. 24 fig., *aurea* p. 24 fig., SEARLE.

*Turbinaria mesenterina* p. 44, ROSSI.—*T. peltata* p. 23 fig., *crater* p. 24 fig., *molis* p. 24 fig., SEARLE.

†? *Turbinoseris pironai* p. 76 fig., KOLOSVÁRY.

†Vermiform coral gen. indet. p. 227 fig., DUNCAN (1).

†*Waagenophyllum novaezealandiae* **sp. n.** p. 16 fig. Permian New Zealand, LEED.

†*Weissermelia* see *Polycocelia*.

†*Wentzelella* discussed, key of spp. p. 17, *maoria* **sp. n.** p. 19 fig. Permian New Zealand, LEED.

†*Xystriphyllum basaltiformis* p. 16 fig., CLAUS.—*X. mitchelli* p. 96 fig., FLETCHER.

†? *Zaphrentis* sp. p. 10 fig., HILL.

†*Zelophyllum* sp. p. 227 fig., DUNCAN (1).

*Zoanthus* p. 448, *thomensis* p. 448 fig., *epistreptus* **sp. n.** p. 452 fig. French West Africa, PAX & MÜLLER (3).—*Z. calypso* p. 4 fig., *dichros* p. 7 fig., PAX & MÜLLER (5).—*Z. ransonii* p. 226 fig., *hypsicaremus* p. 228 fig., **spp. n.** Tuamotu Islands, PAX & MÜLLER (6).

### CTENOPHORA

*Beroë cucumis* p. 266 fig., LELOUP.

*Platyctenida* re-defined p. 65, RANKIN.

*Pleurobrachia pileus* p. 264 fig., LELOUP.—*P. pileus* p. 72 fig., REMANE.

*Vallicula* **gen. n.** (order *Platyctenida*) p. 68, type sp. (by original designation) *multiformis* **sp. n.** p. 68 fig. Jamaica, RANKIN J. Linn. Soc. (Zool.) 43 1956.

### INCERTAE SEDIS

†*Camptostroma resseri* a sp. of *Protolyella* p. F154 fig., HARRINGTON & MOORE (7).

†*Cyclomedusa* p. F153, *gigantea* p. F153 fig., *davidi* p. F153 fig., HARRINGTON & MOORE (7).

†“*Discophyllum plicatum*” p. F156 fig., HARRINGTON & MOORE (7).

†*Duodecimedusina typica* p. F154 fig., *ulrichi* p. F154 fig., HARRINGTON & MOORE (7).

†*Madigania annulata* p. F154 fig., HARRINGTON & MOORE (7).

†“*Medusina*” *atava* p. F156 fig., *boulangeri* p. F156 fig., *eisfeldensis* p. F156 fig., *liassica* p. F158 fig., *lincki* p. F158 fig., *reiflingensis* p. F158 fig., sp. p. F158, *bicinctus* p. F158 fig., *staurophorus* p. F158 fig., HARRINGTON & MOORE (7).

†*Paramedusium africanum* p. F154 fig., HARRINGTON & MOORE (7).

†*Peytoia nathorsti* p. 154 fig., HARRINGTON & MOORE (7).

†*Protolyella asteroides* p. F154 fig., *mawsoni* p. F154 fig., *bohemica* p. F154 fig., *resseri* p. F154 fig., *radiata* p. F154 fig., *princeps* p. F154 fig., *filamenta* p. F154 fig., HARRINGTON & MOORE (7).

†*Protoniobia wadea* considered a concretion p. F159 fig., HARRINGTON & MOORE (7).

†*Spatangopsis costata* p. F156, HARRINGTON & MOORE (7).

*Zoantharia Incertae Sedis* p. F477, HILL (3).

